

FIGURE 1

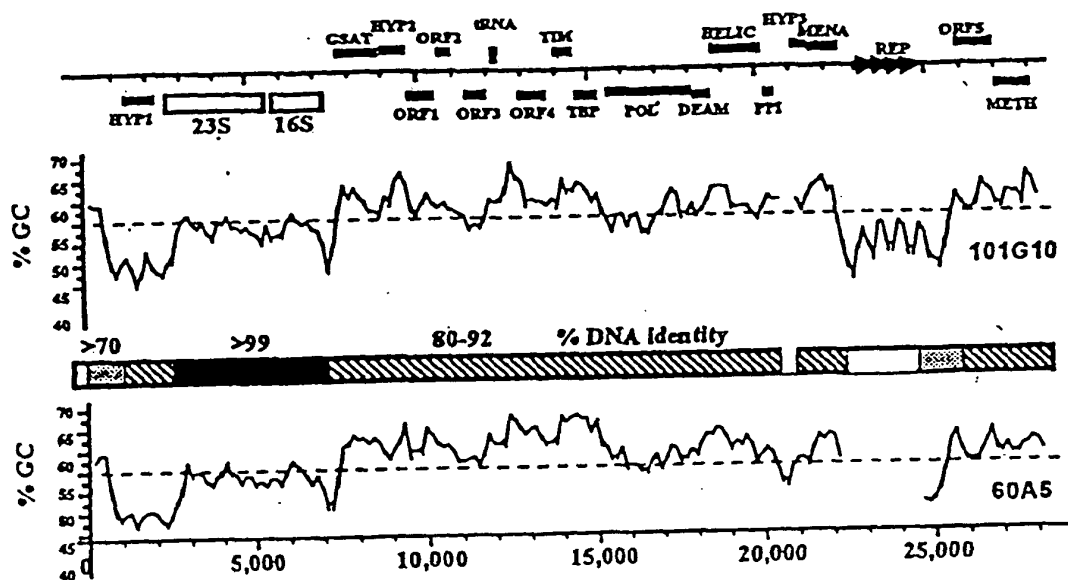


Figure 2

Seq. No.	Gene	Strain	TATA Box			Coding Start			TATA to Start (bp)	
81	Hypoth 03	A	AAGCTAGACT	TTTAAT	TGGG	ATCCGGCGGG	GCGGCGCATG	-----	-----	25
82		B	AAGCTAAACT	TTTAAT	TGGG	ATCCGGCGAG	CCGGCGCGTG	-----	-----	
83	Hypoth 02	A	GGAAACTTTG	ATTATA	CGGG	CGTGCTGCCC	CGGGGCCCAT	G-----	-----	26
84		B	GGAAACTTTG	ATTATA	CGGG	CGTACATTCC	CGGGGCCCAT	G-----	-----	
85	ORF 02	A	AAGGCAAGGT	AATAAT	AGCC	TGCCGTCTGT	AACGGCCGTA	TG-----	-----	27
86		B	ACGGCAAGGT	AATAAT	AGCC	TGCCGTCCGT	ACCTGCCGTA	TG-----	-----	
87	ORF 03	A	CATGGAACTA	GATATT	AACC	GGTTCGCGG	ATCCCATGCA	TG-----	-----	27
88		B	CATGGAACTA	GATAAT	AACC	GTCCCGCGG	GTACAATGCA	TG-----	-----	
89	PPI	A	ATACCGAGAA	GTTATA	GCAG	GGTATGGAAT	GTGCGCGCGC	ATG-----	-----	28
90		B	AGCACGACAA	GTTATA	GCAG	GGTACAAAGG	AGCAGCGCAC	ATG-----	-----	
91	GSAT	A	ATCCGCCCTG	ATTAAA	TTAT	GGGGGGAGCG	GCCTGCTGCC	GTG-----	-----	28
92		B	ATCCGGCCTC	ATTAAA	TTAC	GGGGGGTACA	ACCTGCTGCC	GTG-----	-----	
93	ORF 05	A	CCTTCATACA	CATAAA	TCCC	GCTTGGATGT	GCGGCTGCGC	ATG-----	-----	28
94		B	ACTTCATACA	CATAAA	TCCC	GCCTGAACGG	TCGTCCGCGC	ATG-----	-----	
95	deaminase	A	.GGCATATAC	CATAAT	ATGC	CGGGCGGTGG	CACCATGGCC	GTTG-----	-----	29
96		B	CCGCATATAC	CATAAT	ATGC	CGGGCGGGGG	CAGGCTGCCC	.GTG-----	-----	
97	RNA helic	A	TGTACGAAAC	CATAAA	ACAA	CAGGCCGCGT	CAGGGCCGCG	CGTG-----	-----	29
98		B	GGGTAGAAAC	CATAAA	ACAA	CAGGCCGCGG	CAGGGCG.CG	CGTG-----	-----	
99	ORF 06	A	.ACACGCAG	TATAAA	CGGG	GGCCCCGGCG	GCGCGTATCA	CATG-----	-----	29
100		B	ATACACGTGG	TATAAA	CAGA	GG.CCGGACG	GCGCGGACCA	CATG-----	-----	
101	trNA-tyr	A	GCGATAGTTA	TTTAAA	ACTA	GGATGCCGAT	CACGGATCGT	CCCA-----	-----	29
102		B	GCGATAGTTA	TTTAAA	ACTA	GGATGCCGGG	CACCCGTCGT	CCCA-----	-----	
103	TBP	A	CCGGGCCCCG	GTTAAA	ATAG	CG.CACGGGC	GGATCCTGAC	CAATG-----	-----	30
104		B	CCGGGCCCCG	GTTAAA	ATAG	AGTGCGGCCG	GGCACC GGAT	CAATG-----	-----	
105	TIM	A	GCGTCGATAG	AATAAA	TACG	CGCAGGGGGC	CCC GTGGCGC	GATCGCCCGT	G-----	36
106		B	GCGTCGATAG	AATAAA	TACG	CGC.GGGGCC	GCGGTGC...	GATCGCCCGT	G-----	
107	Hypoth 01	A	ATTTCAACTA	CATAAA	TGCC	TAGTTACGCA	GAAATAGCAA	ACGACGTACT	TCGACTAATG	45
108		B	ACTTCAACTA	CATAAA	TGCC	TAGCTACGCA	GAAATATCAA	ACAAAGTACT	TCGACTAATG	
109	ORF 01	A	ACGGCAGGCT	ATTATT	ACCT	TGCCTTGCGT	TGTA ///.G	CGGGGTGCGG	CAGGGGATG	52
110		B	ACGGCAGGCT	ATTATT	ACCT	TGCCGTGTG.	TACA ///.G	AGGGGGCCTG	CCGGGAGTG	
111	Methylase	A	CTACAACGAT	TTTAAG	TCGG	CGCCGGGGCA	GCCG.///.G	ATGTGGGGCA	GGCAACATG	104
112		B	CTACAAAGAT	TTTAAG	ACGG	CGCGGGTGCC	GCCG.///.T	GGCACGGGGG	CCTATCTTG	
113	16S RNA	A	TCGGCGATGG	TTTATA	TGCC	CATGGACGGG	CCGATCCGAT	CGTACGTGAC	GC.///.AAT	220
114		B	CCGGCGATGG	TTTATA	TGCC	CATGGACAAG	GCGATCCGAT	CGTACGTGAC	GC.///.AAT	

Archaeal promoter
consensus

YTTAWA

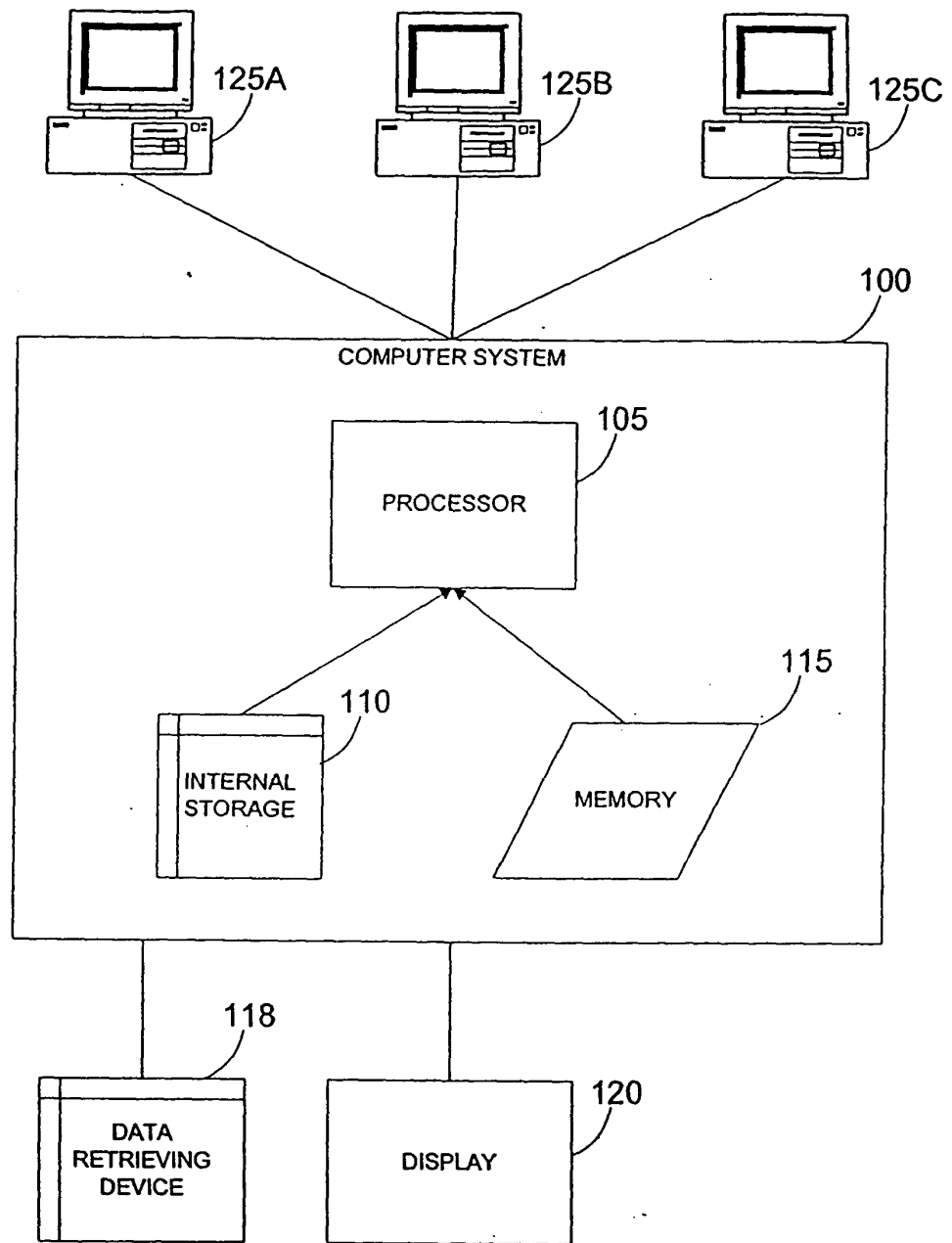


FIGURE 3

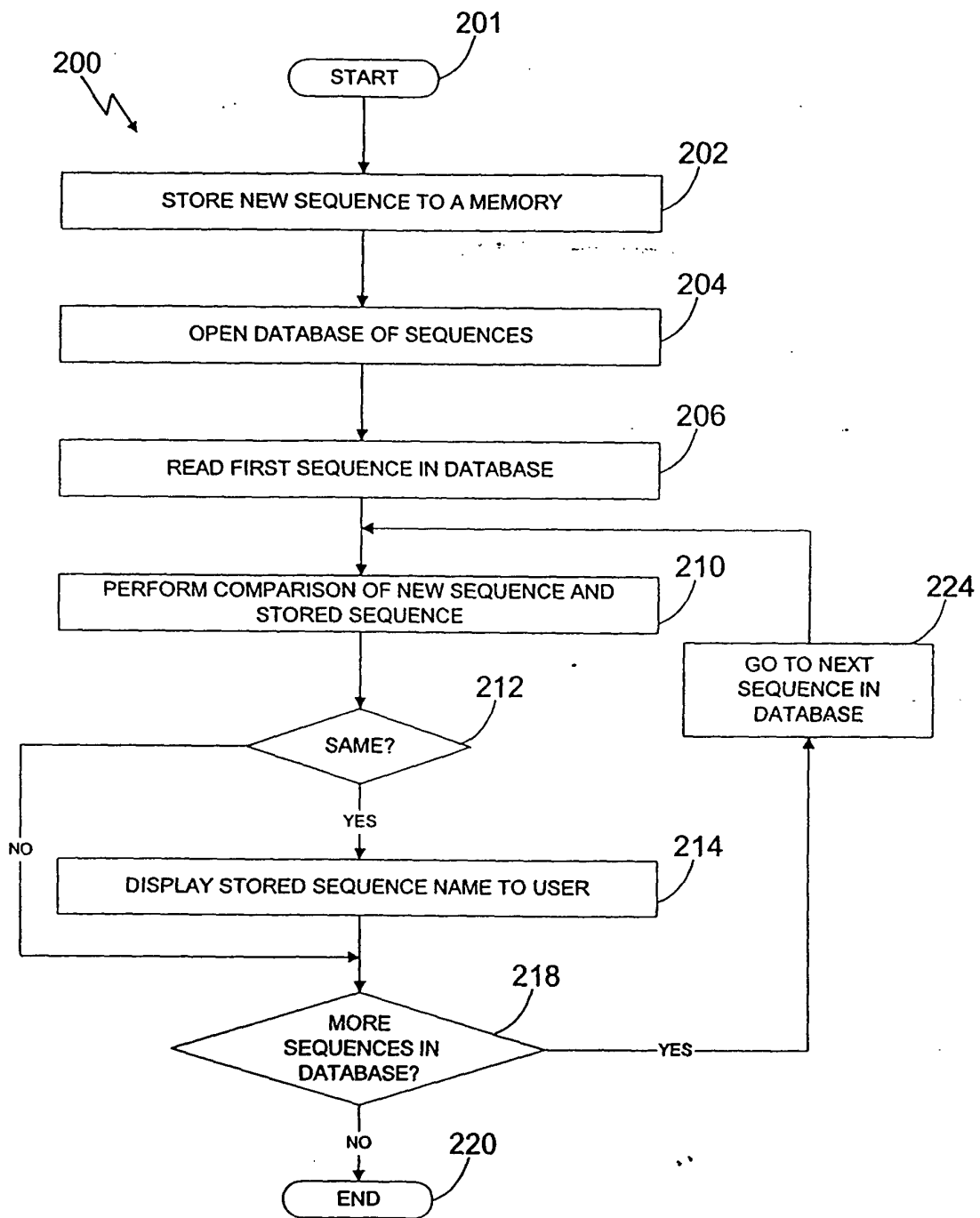


FIGURE 4

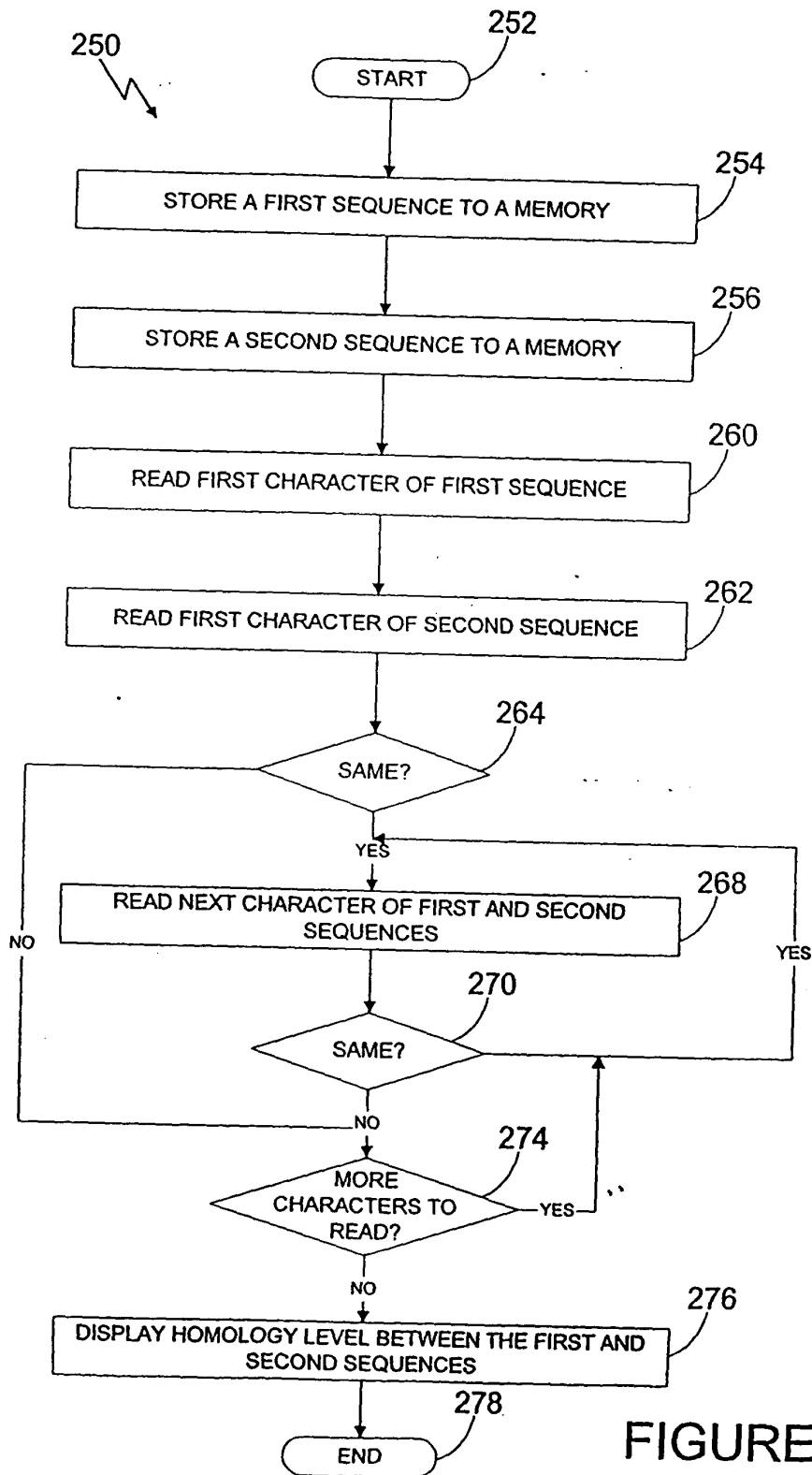


FIGURE 5

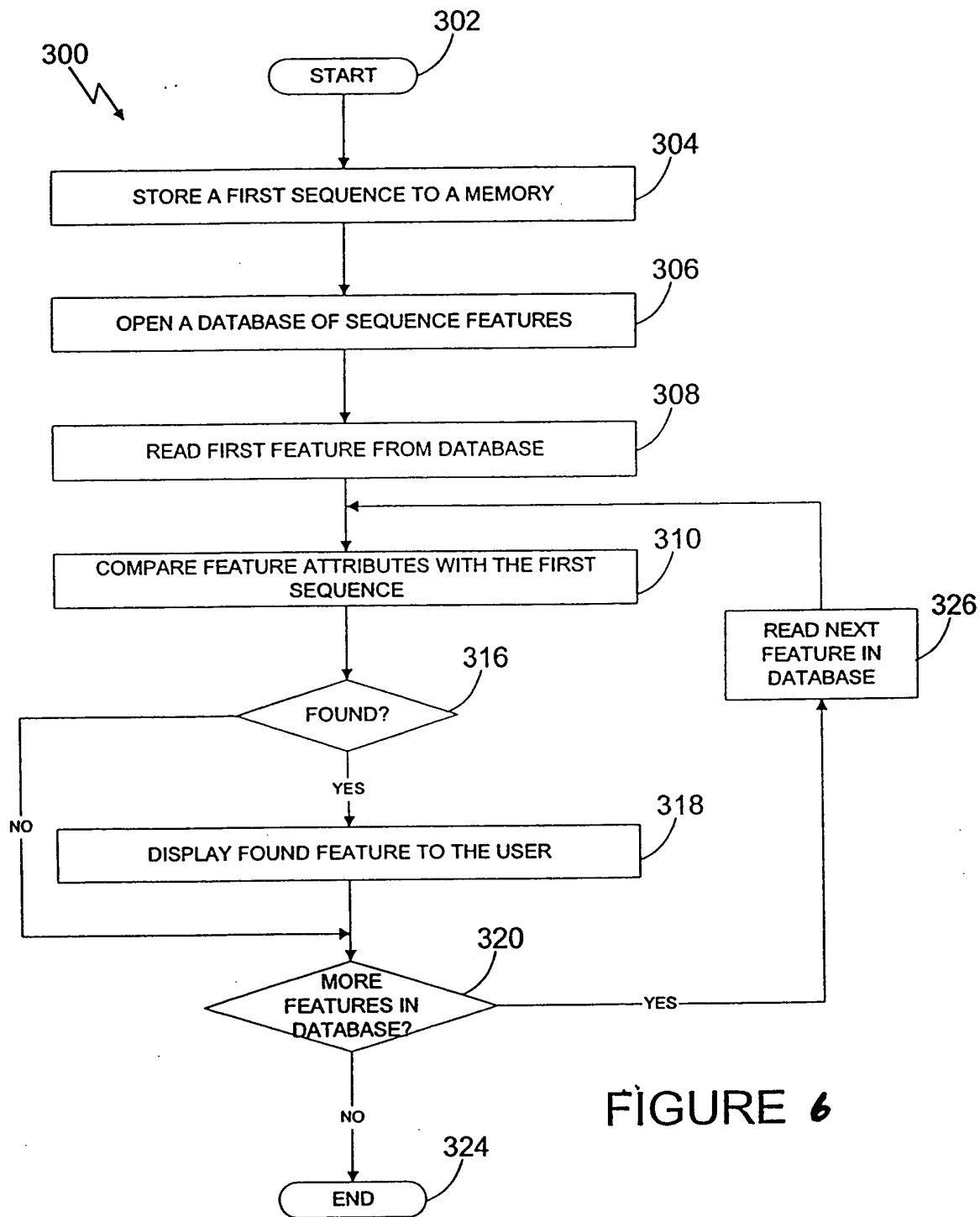


FIGURE 6